

ipd1000javartsvdTES-10

**Defense Information Infrastructure (DII)
Common Operating Environment (COE)**

**Software Version Description (SVD)
for the
JAVA Run-Time (JAVART) Segment**

Preliminary Release

Document Version 1.0

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1 SCOPE

1.1 Identification

This Software Version Description (SVD) describes the JAVA Run-Time (JAVART) segment, Version 1.0.0.0. The JAVART segment provides the JAVA Run-Time Environment (JRE) 1.1.5.0 for JAVA applications used by Tactical Environmental Support System Next Century [TESS(NC)]/Navy Integrated Tactical Environmental Subsystem (NITES) Versions I and II. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE), release 3.1, on a Hewlett-Packard computer running HP-UX 10.20 or a personal computer running the Microsoft Windows NT 4.0 operating system with Service Pack 3.

1.2 System Overview

The software described in this document is a DII COE-compliant software segment that provides the JAVA Virtual Machine (JVM) for JAVA applications (e.g., MDBMAN, STOPLIGHTS) in the run-time NITES I and II versions of the TESS(NC) system.

- NITES I – The local data fusion center and principal Meteorology and Oceanography (METOC) analysis and forecast system (TESS(NC)).
- NITES II – The Tactical Decision Aid (TDA)-oriented subsystem on the Joint Maritime Command Information System (JMCIS) or Global Command and Control System - Maritime (GCCS-M) systems (NITES/Joint METOC Segment (JMS)).

NITES I acquires and assimilates various METOC data for use by US Navy and Marine Corps weather forecasters and tactical planners. It stores these data and products in the METOC Database. NITES I provides users with METOC data, products, and applications necessary to support the warfighter in tactical operations and decision making. NITES I provides data and products to NITES I and II applications, as well as non-TESS(NC) systems requiring METOC data, in a heterogeneous, networked computing environment. Figure 1-1 pictorially represents the TESS(NC) System.

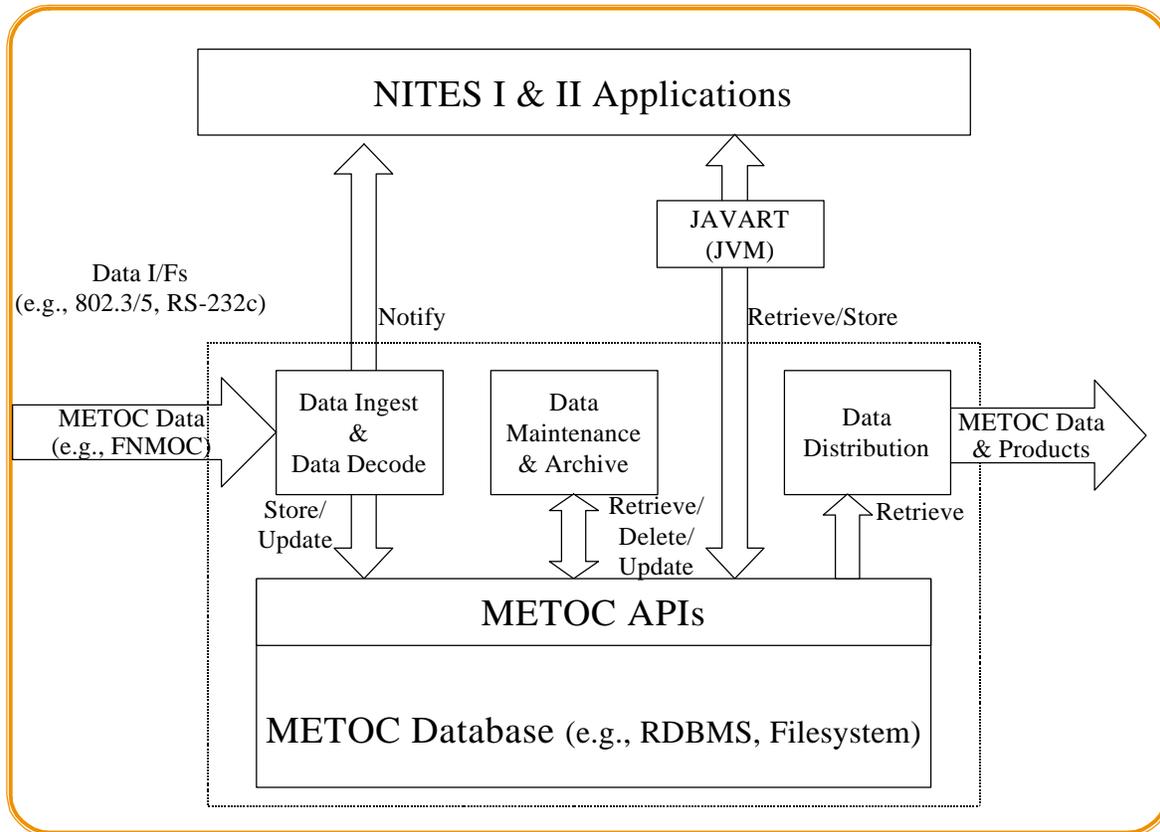


Figure 1-1. TESS(NC) System Overview

1.3 Product Information

1.3.1 Product Qualification

Test and Evaluation (T&E) of the software was performed at IPD's Middletown, RI facility prior to delivery of the software.

1.3.2 Product Restrictions

IPD's intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov. 1995).

1.3.3 Product Dependencies

The JAVART segment is hosted on the following hardware:

- Tactical Advanced Computer, TAC-3 (HP 750/755)/TAC-4 (HP J210)
- IBM-Compatible Personal Computer (PC)

The operating system requirements are:

- TAC-3/TAC-4: HP-UX 10.20
- PC: Windows NT 4.0 with Service Pack 3

The kernel requirements are:

- TAC-3/TAC-4: Kernel 3.0.1.0 with patches through P4
- PC: N/A

The following software must be properly installed prior to loading the JAVART segment:

- Appropriate operating system (as described above),
- Appropriate DII COE Kernel (as described above),

2 REFERENCED DOCUMENTS

2.1 Government Documents

ipd1000javartipTES-10 *Installation Procedures (IP) for the JAVA Run-Time (JAVART)*
2 October 1998 *Segment*

2.2 Non-Government Documents

None.

3 VERSION DESCRIPTION

3.1 Inventory of Materials Released

All physical media and associated documentation for the JAVART segment are listed below.

- JAVART segment v1.0 (HP-UX) Installation Tape (4 mm DAT cartridge for TAC-3/TAC-4 hardware)
- JAVART segment v1.0 (Windows NT) Installation diskette(s) (one compact disk, IBM format for Windows NT 4.0 with Service Pack 3)
- JAVART segment v1.0 SVD, dated 2 October 1998.

3.2 Inventory of Software Contents

A list of all executables and environment files delivered is contained in Appendix A of this document.

3.3 Changes Installed

None. This is an initial segment release.

3.4 Waivers

There are no waivers associated with this software.

3.5 Adaptation Data

There are no unique-to-site data contained in the JAVART 1.0 release.

3.6 Installation Instructions

The JAVART segment v1.0 series IP referenced in Section 2 of this document provide comprehensive installation instructions for the JAVART segment. The fully installed segment occupies approximately 19.34 MB of disk space on HP-UX machines and 8.6 MB on Windows NT machines. On TAC-3/TAC-4 machines, the software requires a minimum of 128 MB of RAM, with 192 MB recommended. On Windows NT machines, the software requires a minimum of 32 MB of RAM, with 128 MB recommended.

3.7 Possible Problems and Known Errors

There are no known possible problems or errors with this initial release of the JAVART segment.

4 NOTES

4.1 Glossary of Acronyms

COE	Common Operating Environment
DII	Defense Information Infrastructure
GCCS-M	Global Command and Control System - Maritime
IP	Installation Procedures
JAVART	JAVA Run-Time Segment
JMCIS	Joint Maritime Command Information System
JMS	Joint METOC Segment
JRE	JAVA Run-Time Environment
JVM	JAVA Virtual Machine
METOC	Meteorology and Oceanography
NITES	Navy Integrated Tactical Environmental Subsystem
PC	Personal Computer
SVD	Software Version Description
T&E	Test and Evaluation
TDA	Tactical Decision Aid
TESS(NC)	Tactical Environmental Support System Next Century

Appendix A - List of Executables and Environment Files

A.1 File Structure for HP-UX Delivery

```

/h/JAVART
total 10
drwxrwxrwx  2 sysadmin COE      24  Sep 21 16:34 data
drwxrwxrwx  3 sysadmin COE    1024  Sep 22 16:47 bin
drwxrwxrwx  2 sysadmin COE    1024  Sep 22 16:47 Scripts
drwxrwxrwx  4 sysadmin COE    1024  Sep 22 16:48 lib
drwxrwxrwx  2 sysadmin COE    1024  Sep 28 17:20 SegDescrip

/h/JAVART/data
total 0

/h/JAVART/bin
total 8
-r-xr-xr-x  1 sysadmin COE      714  Sep 21 16:55 jre
dr-xr-xr-x  3 sysadmin COE    1024  Sep 22 16:47 PA_RISC
-r-xr-xr-x  1 sysadmin COE     635  Sep 23 21:29 rmireg
-r-xr-xr-x  1 sysadmin COE     830  Sep 23 22:17 rmiregistry

/h/JAVART/Scripts
total 0

/h/JAVART/lib
total 21352
-r-xr-xr-x  1 sysadmin COE  1931646  Sep 21 16:34 swingall.jar
-r-xr-xr-x  1 sysadmin COE  1558161  Sep 21 16:34 symbeans.jar
-r-xr-xr-x  1 sysadmin COE  1274940  Sep 21 16:34 symclass.zip
-r-xr-xr-x  1 sysadmin COE  1528736  Sep 21 16:34 jbcl2.0-rt.jar
-r-xr-xr-x  1 sysadmin COE      916  Sep 21 16:35 rmic.properties
-r-xr-xr-x  1 sysadmin COE      981  Sep 21 16:52 awt.properties
-r-xr-xr-x  1 sysadmin COE     5636  Sep 21 16:52 content-types.properties
-r-xr-xr-x  1 sysadmin COE     8910  Sep 21 16:52 font.properties.tr
-r-xr-xr-x  1 sysadmin COE     9276  Sep 21 16:52 font.properties.cs
-r-xr-xr-x  1 sysadmin COE    14207  Sep 21 16:52 font.properties.zh_GB2312
-r-xr-xr-x  1 sysadmin COE     8908  Sep 21 16:52 font.properties.el
-r-xr-xr-x  1 sysadmin COE     9276  Sep 21 16:52 font.properties.hu
-r-xr-xr-x  1 sysadmin COE    11556  Sep 21 16:52 font.properties
-r-xr-xr-x  1 sysadmin COE    17919  Sep 21 16:52 font.properties.ja
-r-xr-xr-x  1 sysadmin COE    13924  Sep 21 16:52 font.properties.zh_TW_Big5
-r-xr-xr-x  1 sysadmin COE    14875  Sep 21 16:52 font.properties.ko
-r-xr-xr-x  1 sysadmin COE     7771  Sep 21 16:52 font.properties.lt
-r-xr-xr-x  1 sysadmin COE     7771  Sep 21 16:52 font.properties.lv
-r-xr-xr-x  1 sysadmin COE     9276  Sep 21 16:52 font.properties.pl
-r-xr-xr-x  1 sysadmin COE     8889  Sep 21 16:52 font.properties.ru
-r-xr-xr-x  1 sysadmin COE     22726  Sep 21 16:52 font.properties.zh_TW_CNS11643
-r-xr-xr-x  1 sysadmin COE  3054345  Sep 21 16:52 il8n.jar
-r-xr-xr-x  1 sysadmin COE  1334808  Sep 21 16:52 rt.jar
-r-xr-xr-x  1 sysadmin COE      362  Sep 21 16:52 serialver.properties
dr-xr-xr-x  3 sysadmin COE     1024  Sep 22 16:47 PA_RISC
dr-xr-xr-x  2 sysadmin COE     1024  Sep 22 16:48 security

/h/JAVART/SegDescrip
total 18
-rw-r--r--  1 sysadmin COE      375  Sep 21 16:34 SegInfo

```

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```
-rwxr-xr-x 1 sysadmin COE 1116 Sep 21 16:34 DEINSTALL
-rwxr-xr-x 1 sysadmin COE 674 Sep 21 16:34 PostInstall
-rw-r--r-- 1 sysadmin COE 431 Sep 21 16:47 ReleaseNotes
-rw-r--r-- 1 sysadmin COE 421 Sep 21 16:47 SegName
-rw-r--r-- 1 sysadmin COE 200 Sep 21 16:48 VERSION
-rw-rw-rw- 1 root other 132 Sep 22 16:48 Installed
-rw-rw-rw- 1 root COE 120 Sep 22 17:31 Validated

/h/JAVART/bin/PA_RISC
total 2
dr-xr-xr-x 2 sysadmin COE 1024 Sep 22 16:47 green_threads

/h/JAVART/lib/PA_RISC
dr-xr-xr-x 2 sysadmin COE 1024 Sep 22 16:47 green_threads

/h/JAVART/lib/security
total 6
-r-xr-xr-x 1 sysadmin COE 2184 Sep 21 16:52 java.security

/h/JAVART/bin/PA_RISC/green_threads
total 72
-r-xr-xr-x 1 sysadmin COE 36864 Sep 21 16:45 jre

/h/JAVART/lib/PA_RISC/green_threads
total 5240
-r-xr-xr-x 1 sysadmin COE 49152 Sep 21 16:52 libnet.sl
-r-xr-xr-x 1 sysadmin COE 1576960 Sep 21 16:52 libjava.sl
-r-xr-xr-x 1 sysadmin COE 90112 Sep 21 16:52 libmath.sl
-r-xr-xr-x 1 sysadmin COE 12288 Sep 21 16:52 libmmedia.sl
-r-xr-xr-x 1 sysadmin COE 430080 Sep 21 16:52 libawt.sl
-r-xr-xr-x 1 sysadmin COE 180224 Sep 21 16:52 libtawt.sl
-r-xr-xr-x 1 sysadmin COE 90112 Sep 21 16:52 libzip.sl
-r-xr-xr-x 1 sysadmin COE 139264 Sep 21 16:52 libjpeg.sl
-r-xr-xr-x 1 sysadmin COE 61440 Sep 21 16:52 libJdbcOdbc.sl
-r-xr-xr-x 1 sysadmin COE 12288 Sep 21 16:52 libsysresource.sl
```

A.2 File Structure for Windows NT Delivery

```

\h\JAVART
total 3
drwxr-xr-x 20 0 everyone 0 Jun 23 11:25 bin
drwxr-xr-x 4 0 everyone 0 Jun 23 11:25 data
drwxr-xr-x 10 0 everyone 0 Jun 23 11:25 SegDescrip
drwxr-xr-x 4 0 everyone 0 Jun 23 11:25 Scripts
drwxr-xr-x 15 0 everyone 0 Jun 23 11:25 lib
-rw-r--r-- 1 0 everyone 5341 Jun 23 11:26 DeIsL1.isu

\h\JAVART\bin
total 451
-rw-r--r-- 1 0 everyone 408576 Nov 24 1997 javai.dll
-rw-r--r-- 1 0 everyone 42496 Nov 24 1997 math.dll
-rw-r--r-- 1 0 everyone 21504 Nov 24 1997 net.dll
-rw-r--r-- 1 0 everyone 46080 Nov 24 1997 zip.dll
-rw-r--r-- 1 0 everyone 21504 Nov 24 1997 agent.dll
-rw-r--r-- 1 0 everyone 229376 Nov 24 1997 winawt.dll
-rw-r--r-- 1 0 everyone 70656 Nov 24 1997 jpeg.dll
-rw-r--r-- 1 0 everyone 7168 Nov 24 1997 mmedia.dll
-rw-r--r-- 1 0 everyone 21504 Nov 24 1997 JdbcOdbc.dll
-rw-r--r-- 1 0 everyone 6144 Nov 24 1997 sysresource.dll
-rwxr-xr-x 1 0 everyone 6144 Jun 10 16:24 rmiregistry.exe
-rwxr-xr-x 1 0 everyone 5120 Jun 10 16:24 java.exe
-rwxr-xr-x 1 0 everyone 11776 Jun 10 16:24 jrew.exe
-rwxr-xr-x 1 0 everyone 11776 Jun 10 16:24 jre.exe
-rw-r--r-- 1 0 everyone 287 Sep 08 15:51 server.bak
-rw-r--r-- 1 0 everyone 287 Sep 08 15:52 server.cfg

\h\JAVART\data
total 0

\h\JAVART\SegDescrip
total 6
-rwxr-xr-x 1 0 everyone 177 Jun 10 15:25 DEINSTALL.bat
-rwxr-xr-x 1 0 everyone 297 Jun 10 15:26 PostInstall.bat
-rw-r--r-- 1 0 everyone 272 Jun 10 15:26 ReleaseNotes
-rw-r--r-- 1 0 everyone 184 Jun 10 15:31 Version
-rw-r--r-- 1 0 everyone 546 Jun 10 15:33 SegName
-rw-r--r-- 1 0 everyone 677 Jun 15 21:07 SegInfo.txt

\h\JAVART\Scripts
total 0

\h\JAVART\lib
total 8103
-rw-r--r-- 1 0 everyone 1388374 Nov 24 1997 rt.jar
-rw-r--r-- 1 0 everyone 981 Nov 24 1997 awt.properties
-rw-r--r-- 1 0 everyone 1897 Nov 24 1997 font.properties
-rw-r--r-- 1 0 everyone 5269 Nov 24 1997 content-types.properties
-rw-r--r-- 1 0 everyone 362 Nov 24 1997 serialver.properties
-rw-r--r-- 1 0 everyone 8928240 Nov 25 1997 classes.zip
-rw-r--r-- 1 0 everyone 1931646 Feb 27 1998 swingall.jar
-rw-r--r-- 1 0 everyone 1533036 Mar 12 1998 symbeans.jar
-rw-r--r-- 1 0 everyone 1266839 Mar 12 1998 symclass.zip

```

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```
-rw-r--r--  1 0  everyone 1528736  Jun 16 12:20 jbc12.0-rt.jar  
drwxr-xr-x  5 0  everyone      0  Jun 23 11:26 Security
```

```
\h\JAVART\lib\Security
```

```
total 2
```

```
-r--r--r--  1 0  everyone      2184  Jun 13 16:32 java.security
```